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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE 1 OF 3 PAGES |
| 2. AMENDMENT/MODIFICATION NO. 0002 | 3. EFFECTIVE DATE Apr 29, 2008 | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| 6. ISSUED BY NASA/Stennis Space Center Office of Procurement Program Management Support Division Building 1100 Room 251H Stennis Space Center, MS 39529-6000 | | 7. ADMINISTERED BY (If other than Item 6) Same as block #6 | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP: Code) | | <input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. NNS08235767R <input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) Mar 28, 2008 10A. MODIFICATION OF CONTRACT/ORDER NO. 10B. DATED (SEE ITEM 13) | |
| CODE | FACILITY CODE | | |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.


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| <input checked="" type="checkbox"/> | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. |
| | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| | D. OTHER Specify type of modification and authority) |

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Solicitation No. NNS08235767R for Cryogenic and Isopropyl Alcohol Butterfly Valves for the A-3 Altitude Test Stand at NASA Stennis Space Center, is hereby amended as follows – See attached pages 2 and 3

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

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|---|------------------|--|------------------------------------|
| 15A. NAME AND TITLE OF SIGNER (Type or print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Huk, II | |
| 15B. CONTRACTOR/OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA  BY (Signature of Contracting Officer) | 16C. DATE SIGNED 4/29/08 |
| (Signature of person authorized to sign) | | | |

a. The following questions and answers are hereby incorporated into the subject solicitation.

QUESTION: "No Metric threads are allowed" meaning: only for Valve "No Metric threads are allowed", or for Valve and Actuator "No Metric threads are allowed" ?

ANS: Metric threads are not allowed on the valve. Metric threads are not allowed on the actuator.

QUESTION: Am I correct to consider to offer:

5) 12" 300# SST Cryogenic "LH Service"
Cleaning per 2X

Note: Cannot offer or need further details for the referenced "Vacuum Jacket" requirement- Please advise

7) 10" 600# SST Cryogenic "LOX Service"
Cleaning per 1XX

5) 10" 600# SST Cryogenic "IPA Service"
Cleaning per 2X

Offer would be for the supply of factory tested Valve/Actuator assemblies.

Also, since we "only" manufacture a Metal Seated Triple-offset valve would we be in a favorable position to bid this requirement?

Our valves would generally be 30% more than a "Soft-seated" valve and more expensive to automate due to the higher torque requirements.

Are there many qualified "Soft-seated" valve pursuing this bid?

ANS: The IPA valves are not cryogenic; IPA will be at ambient temperature.

We understand that metal seated valves are more expensive than soft seated valves, however we are looking for the valve that gives the best value. Therefore all valves will be considered based on their individual merits and not solely based on their cost.

Regarding the jacket requirements for the 12" LH: The description in the specification of the vacuum jacket requirements gives dimensions of OD, ID, and thickness. It also details the spacing of the bolt holes, the diameter of the bolts, and the finish of the flange surface.

We can't comment about another vendor's interest or qualifications.

QUESTION: The specification calls for "pneumatic double acting spring assist". This works for position seated resilient seat valves but with a torque seated metal seat valve this is not an appropriate design. The actuator sizing for spring to close must satisfy the valve torque plus safety factor. The actuator sizing for double acting must satisfy the valve torque plus safety factor. These two together (additive) will exceed the valve torque capability and potentially cause failure. If we limit the pneumatic pressure to not cause failure then it will not close the valve properly with air only. Therefore we feel this combination of actuator package with the torque seated valve would not function per NASA design.

Would a quotation consisting of spring return only actuators in lieu of double acting with spring return be acceptable?

ANS: Actuators for metal seated butterfly valves that use a single acting, spring return design will be accepted. Spring shall be capable of closing valve under full differential pressure. Fail position of valve shall still meet specific data sheet call out. Variable orifice metering valve on the actuator exhaust port is still required per the specification.

- b. The date for receipt of proposals remains the same at May 16, 2008, 3:00 PM Local Time.
- c. All other terms and conditions remain unchanged.